

GRANITE REEF WASH FCD GAGE ID# 4728

STATION DESCRIPTION

LOCATION – The gage is located in Scottsdale, Arizona about 500 feet east of Granite Reef Road on the north side of McDowell Road. Latitude N 33° 27' 57.6"; Longitude W111° 53' 54.7". Located in the SE1/4 S36 T2N R4E in the Tempe 7.5-minute quadrangle.

ESTABLISHMENT – Gaging was established on June 26, 2007.

DRAINAGE AREA – Not determined.

GAGE – The gage is a pressure transducer type instrument. The transducer diaphragm is at elevation 1.28 feet gage height, levels of July 12, 2007.

There are no crest stage gages at this location.

There is no staff gage at this location.

ZERO GAGE HEIGHT – Zero gage height is defined as the bottom of the upstream side of the culvert under McDowell Road.

HISTORY – No previous history at this location. Gaging established on June 26, 2007.

REFERENCE MARKS –

RP-1 is a chiseled 'X' on the southwest corner of the SRP manhole pad. Elevation 10.03 feet gage height, levels of July 12, 2007.

CHANNEL AND CONTROL – The channel is a culvert. The culvert has dimensions of 12 feet wide by 8 feet high. Culvert length is 106 feet with a slope of 0.0033. The culvert is rectangular and is built of concrete.

The inlet channel is grass lined and travels through an apartment complex. The inlet itself has a number of small cobbles that continue into the culvert. The culvert bottom is concrete. The outlet channel is an improved channel.

RATING – The current rating is Rating #1, applied as of gage installation. The rating was developed from surveyed data and used to create an HY-8 culvert model.

DISCHARGE MEASUREMENTS – Possibly the inlet channel could be used for a direct measurement.

POINT OF ZERO FLOW – The PZF is at 0.00 feet gage height, levels of July 12, 2007. The low point is at the right side of the inlet to the culvert.

FLOODS – Runoff of 588 cfs at 6.61 feet gage height occurred on August 7, 2008.

REGULATION – None

DIVERSIONS – None known

ACCURACY – Fair

UPDATE - July 18, 2011
 DE Gardner